115TH CONGRESS 1ST SESSION

S. 1410

To further the development of unmanned aircraft system technology through investing in additional research, building a trained workforce, and establishing working groups to address near-term and long-term challenges, and for other purposes.

IN THE SENATE OF THE UNITED STATES

June 22, 2017

Mr. Warner (for himself, Mr. Hoeven, Ms. Cortez Masto, and Mr. Heller) introduced the following bill; which was read twice and referred to the Committee on Commerce, Science, and Transportation

A BILL

- To further the development of unmanned aircraft system technology through investing in additional research, building a trained workforce, and establishing working groups to address near-term and long-term challenges, and for other purposes.
 - 1 Be it enacted by the Senate and House of Representa-
 - 2 tives of the United States of America in Congress assembled,
 - 3 SECTION 1. SHORT TITLE.
 - 4 This Act may be cited as the "Safe Development, Re-
 - 5 search, and Opportunities Needed for Entrepreneurship
- 6 Act of 2017" or the "Safe DRONE Act of 2017".

1 SEC. 2. DEFINITIONS.

- 2 Except as otherwise specifically provided, in this Act,
- 3 the terms "unmanned aircraft", "unmanned aircraft sys-
- 4 tem", and "small unmanned aircraft" have the meanings
- 5 given those terms in section 331 of the FAA Moderniza-
- 6 tion and Reform Act of 2012 (Public Law 112–95; 49
- 7 U.S.C. 40101 note).

8 SEC. 3. SENSE OF CONGRESS ON EMERGENCY EXEMPTION

- 9 **PROCESS.**
- 10 It is the sense of Congress that the Administrator
- 11 of the Federal Aviation Administration should comply as
- 12 soon as possible, and not later than 60 days after the date
- 13 of the enactment of this Act, with the requirement under
- 14 section 2207 of the FAA Extension, Safety, and Security
- 15 Act of 2016 (Public Law 114–190; 49 U.S.C. 40101 note)
- 16 to publish guidance for applications for, and procedures
- 17 for the processing of, on an emergency basis, exemptions
- 18 or certificates of authorization or waiver for the use of
- 19 unmanned aircraft systems by or on behalf of civil or pub-
- 20 lic operators in response to a catastrophe, disaster, or
- 21 other emergency to facilitate emergency response oper-
- 22 ations, such as firefighting, search and rescue, post-cata-
- 23 strophic response operations, such as utility and infra-
- 24 structure restoration efforts, and the safe and prompt
- 25 processing, adjustment, and payment of insurance claims.

1	SEC. 4. PLAN FOR FULL OPERATIONAL CAPABILITY OF UN-
2	MANNED AIRCRAFT SYSTEMS TRAFFIC MAN-
3	AGEMENT.
4	(a) In General.—The Secretary of Transportation,
5	in coordination with the Administrator of the National
6	Aeronautics and Space Administration and industry stake-
7	holders, shall develop an implementation plan to achieve
8	full operational capability of unmanned aircraft systems
9	traffic management (in this section referred to as
10	"UTM") and ensure the safety and security of all aircraft.
11	(b) Requirements.—In developing the plan re-
12	quired by subsection (a), the Secretary shall—
13	(1) establish a timeline for certifying an oper-
14	ational capability of UTM as safe and approved for
15	use;
16	(2) establish criteria to be used to certify a
17	UTM system under paragraph (1), including the
18	demonstration and validation of such a system at
19	the test ranges designated under section 332(c) of
20	the FAA Modernization and Reform Act of 2012
21	(Public Law 112–95; 49 U.S.C. 40101 note); and
22	(3) outline the roles of industry and govern-
23	ment in establishing an operational UTM.
24	(c) Assessments.—The plan required by subsection
25	(a) shall include an assessment of various components nec-

1	essary for and possible with the full operational capability
2	of UTM, including—
3	(1) identification of unmanned aircraft systems
4	in the national airspace system;
5	(2) deconfliction of unmanned aircraft systems
6	in the national airspace system;
7	(3) mitigation of effects of unmanned aircraft
8	systems in the national airspace system;
9	(4) the extent that UTM may rely on or use re-
10	sources of the Federal Government;
11	(5) the need for additional detect-and-avoid
12	technologies to detect cooperative and noncoopera-
13	tive aircraft;
14	(6) interoperability with traditional air traffic
15	management services and technology;
16	(7) the potential for UTM to manage higher al-
17	titude operations of unmanned aircraft systems and
18	unmanned aircraft systems weighing more than 55
19	pounds; and
20	(8) cybersecurity protections and national secu-
21	rity benefits.
22	(d) DEADLINE.—Not later than one year after the
23	date of the enactment of this Act, the Secretary shall—
24	(1) complete the plan required by subsection
25	(a):

1	(2) submit the plan to—
2	(A) the Committee on Commerce, Science,
3	and Transportation of the Senate; and
4	(B) the Committee on Science, Space, and
5	Technology and the Committee on Transpor-
6	tation and Infrastructure of the House of Rep-
7	resentatives; and
8	(3) publish the plan on a publicly accessible
9	Internet website of the Federal Aviation Administra-
10	tion.
11	SEC. 5. COMMUNITY AND TECHNICAL COLLEGE CENTERS
12	OF EXCELLENCE IN SMALL UNMANNED AIR-
13	CRAFT SYSTEM TECHNOLOGY TRAINING.
1314	(a) Designation.—Not later than 120 days after
14	(a) Designation.—Not later than 120 days after
14 15	(a) Designation.—Not later than 120 days after the date of the enactment of this Act, the Secretary of
14 15 16 17	(a) Designation.—Not later than 120 days after the date of the enactment of this Act, the Secretary of Transportation, in consultation with the Secretary of Edu-
14 15 16 17	(a) Designation.—Not later than 120 days after the date of the enactment of this Act, the Secretary of Transportation, in consultation with the Secretary of Education and the Secretary of Labor, shall, subject to para-
14 15 16 17 18	(a) DESIGNATION.—Not later than 120 days after the date of the enactment of this Act, the Secretary of Transportation, in consultation with the Secretary of Education and the Secretary of Labor, shall, subject to paragraph (2), designate consortia of public, 2-year institu-
14 15 16 17 18	(a) Designation.—Not later than 120 days after the date of the enactment of this Act, the Secretary of Transportation, in consultation with the Secretary of Education and the Secretary of Labor, shall, subject to paragraph (2), designate consortia of public, 2-year institutions of higher education as Community and Technical
14 15 16 17 18 19 20	(a) DESIGNATION.—Not later than 120 days after the date of the enactment of this Act, the Secretary of Transportation, in consultation with the Secretary of Education and the Secretary of Labor, shall, subject to paragraph (2), designate consortia of public, 2-year institutions of higher education as Community and Technical College Centers of Excellence in Small Unmanned Aircraft
14 15 16 17 18 19 20 21	(a) Designation.—Not later than 120 days after the date of the enactment of this Act, the Secretary of Transportation, in consultation with the Secretary of Education and the Secretary of Labor, shall, subject to paragraph (2), designate consortia of public, 2-year institutions of higher education as Community and Technical College Centers of Excellence in Small Unmanned Aircraft System Technology Training (in this section referred to
14 15 16 17 18 19 20 21	(a) DESIGNATION.—Not later than 120 days after the date of the enactment of this Act, the Secretary of Transportation, in consultation with the Secretary of Education and the Secretary of Labor, shall, subject to paragraph (2), designate consortia of public, 2-year institutions of higher education as Community and Technical College Centers of Excellence in Small Unmanned Aircraft System Technology Training (in this section referred to as the "Centers of Excellence").

1	to the use of small unmanned aircraft systems, including
2	by—
3	(1) admitting more students;
4	(2) training faculty;
5	(3) expanding facilities;
6	(4) establishing new career pathways from sec-
7	ondary school to associate degree and baccalaureate
8	degree programs; and
9	(5) awarding credit for prior learning experi-
10	ence, including military service.
11	(c) Education and Training Requirements.—
12	The Centers of Excellence shall address education and
13	training requirements associated with various types of
14	small unmanned aircraft systems, components, and related
15	equipment, including with respect to—
16	(1) multi-rotor and fixed-wing small unmanned
17	aircraft;
18	(2) flight systems, radio controllers, compo-
19	nents, and characteristics of such aircraft;
20	(3) routine maintenance, uses and applications
21	privacy concerns, safety, and insurance for such air-
22	craft;
23	(4) hands-on flight practice using small model
24	quadcopters and computer simulator training;

- 1 (5) use of small unmanned aircraft in various 2 industry applications and local, State, and Federal 3 Government programs and services, including in ag-4 riculture, law enforcement, monitoring oil and gas 5 pipelines, natural disaster response and recovery, fire and emergency services, and other emerging 6 7 areas:
- 8 (6) Federal policies concerning small unmanned 9 aircraft;
- 10 (7) dual credit programs to deliver small unmanned aircraft training opportunities to secondary 12 school students; and
- 13 (8) training with respect to sensors and the 14 processing, analyzing, and visualizing of data col-15 lected by small unmanned aircraft.
- 16 (d) Collaboration.—The Centers of Excellence
- shall seek to collaborate with institutions participating in
- the Alliance for System Safety of UAS through Research 18
- Excellence of the Federal Aviation Administration and 19
- with the test ranges designated under section 332(c) of
- the FAA Modernization and Reform Act of 2012 (Public 21
- 22 Law 112–95; 49 U.S.C. 40101 note).
- 23 (e) AUTHORIZATION OF APPROPRIATIONS.—There
- are authorized to be appropriated to the Secretary of

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- 1 Transportation \$5,000,000 for each of the fiscal years
- 2 2018 through 2023 to carry out this section.
- 3 (f) Institution of Higher Education.—In this
- 4 section, the term "institution of higher education" has the
- 5 meaning given the term in section 101 of the Higher Edu-
- 6 cation Act of 1965 (20 U.S.C. 1001).
- 7 SEC. 6. INTERAGENCY WORKING GROUP ON COORDINATED
- 8 FEDERAL POLICY FOR COMMUNICATIONS
- 9 AMONG UNMANNED AIRCRAFT SYSTEMS.
- 10 (a) Sense of Congress.—It is the sense of Con-
- 11 gress that—
- 12 (1) a Federal policy for communications among
- unmanned aircraft systems, which may include com-
- munications through spectrum, wireless, or broad-
- 15 cast networks, or other means, requires coordination
- among Federal agencies in order to facilitate the
- safe integration of unmanned aircraft systems into
- the national airspace system; and
- 19 (2) a policy described in paragraph (1) should
- ensure safety, promote investment, and foster inno-
- vation to benefit all unmanned aircraft systems
- stakeholders, including manufacturers, operators,
- and consumers.
- (b) Establishment of Working Group.—Not
- 25 later than 60 days after the date of the enactment of this

1	Act, the Assistant Secretary and the Chairman shall es-
2	tablish a working group to make recommendations with
3	respect to the coordination of Federal policy for commu-
4	nications among unmanned aircraft systems to facilitate
5	the safe integration of unmanned aircraft systems into the
6	national airspace system.
7	(c) Membership.—
8	(1) In general.—The working group estab-
9	lished under subsection (b) shall be composed of
10	Federal stakeholders described in paragraph (2) and
11	non-Federal stakeholders described in paragraph
12	(3).
13	(2) Federal Stakeholders.—The Federal
14	stakeholders described in this paragraph are rep-
15	resentatives of—
16	(A) the National Telecommunications and
17	Information Administration;
18	(B) the Federal Communications Commis-
19	sion;
20	(C) the Federal Aviation Administration;
21	(D) the National Aeronautics and Space
22	Administration;
23	(E) the Department of Defense;
24	(F) the Department of Homeland Security;
25	(G) the Department of Justice; and

1	(H) any other Federal agency the Assist-
2	ant Secretary considers appropriate.
3	(3) Non-federal stakeholders.—The non-
4	Federal stakeholders described in this paragraph are
5	representatives of—
6	(A) unmanned aircraft systems manufac-
7	turers;
8	(B) unmanned aircraft systems operators;
9	(C) customers or end users of data col-
10	lected by unmanned aircraft systems operators;
11	(D) unmanned aircraft systems technology
12	providers;
13	(E) commercial radio spectrum license
14	holders;
15	(F) operators of commercial services in un-
16	licensed spectrum allocations;
17	(G) commercial radio equipment manufac-
18	turers;
19	(H) appropriate standards-setting organi-
20	zations; and
21	(I) the test ranges designated under sec-
22	tion 332(c) of the FAA Modernization and Re-
23	form Act of 2012 (Public Law 112–95; 49
24	U.S.C. 40101 note).

1	(d) Considerations.—In making recommendations
2	under subsection (b), the working group established under
3	that subsection shall consider current and anticipated
4	communications needs for unmanned aircraft systems, in-
5	cluding the development of—
6	(1) sense-and-avoid and detect-and-avoid tech-
7	nology;
8	(2) payload data transmissions;
9	(3) communications link integration in un-
10	manned aircraft systems;
11	(4) appropriate standards for communications
12	links for various altitudes, aircraft, and operations;
13	(5) traditional and unmanned aircraft system
14	air traffic management technology;
15	(6) command and control at high altitudes;
16	(7) shared spectrum access and management
17	technologies, including dynamic spectrum-sharing
18	schemes, contention-based protocols, and cognitive
19	radio capabilities;
20	(8) internationally harmonized communications
21	standards; and
22	(9) radio-frequency communications security
23	standards.
24	(e) Report to Congress.—Not later than one year
25	after the date of the enactment of this Act, and annually

thereafter through January 1, 2023, the Assistant Secretary shall submit to Congress a report on the status of 3 the development of a Federal policy for communications 4 among unmanned aircraft systems, including— 5 (1) a summary of considerations under sub-6 section (d); and 7 (2) recommendations for legislative or regu-8 latory action related to that policy that is necessary 9 to facilitate the safe integration of unmanned air-10 craft systems into the national airspace system. 11 (f) Definitions.—In this section: 12 (1) Assistant secretary.—The term "Assist-13 ant Secretary" means the Assistant Secretary of 14 Commerce for Communications and Information. 15 (2) Chairman.—The term "Chairman" means 16 the Chairman of the Federal Communications Com-17 mission. 18 SEC. 7. INTERAGENCY WORKING GROUP ON ENHANCED 19 SAFETY AND SECURITY FOR SMALL UN-20 MANNED AIRCRAFT SYSTEMS. 21 (a) IN GENERAL.—Not later than 90 days after the date of the enactment of this Act, the Administrator of 23 the Federal Aviation Administration, in coordination with the Secretary of Homeland Security, shall establish an

interagency working group—

1	(1) to examine methods and structures to en-
2	hance the safety and security of expanded operations
3	by small unmanned aircraft that involve operations
4	beyond the visual line of sight of the operator and
5	over people; and
6	(2) to clearly delineate roles and responsibilities
7	among agencies participating in the working group
8	in determining proper safety and security-related ob-
9	ligations and oversight.
10	(b) Membership.—The interagency working group
11	established under subsection (a) shall, in addition to the
12	Administrator of the Federal Aviation Administration and
13	the Secretary of Homeland Security, be composed of the
14	following:
15	(1) The Secretary of Defense.
16	(2) The Attorney General.
17	(3) The Director of the Federal Bureau of In-
18	vestigation.
19	(4) The heads of such other Federal agencies as
20	the Administrator of the Federal Aviation Adminis-
21	tration considers appropriate.
22	(c) Consultations.—The interagency working
23	group established under subsection (a) shall regularly con-
24	sult with representatives of—

1	(1) unmanned aircraft systems industry organi-
2	zations and stakeholders; and
3	(2) the test ranges designated under section
4	332(c) of the FAA Modernization and Reform Act
5	of 2012 (Public Law 112–95; 49 U.S.C. 40101
6	note).
7	(d) Report.—Not later than 180 days after the date
8	of the enactment of this Act, the interagency working
9	group established under subsection (a) shall—
10	(1) develop conclusions and recommendations
11	with respect to the matters specified in that sub-
12	section; and
13	(2) submit to Congress a report on such conclu-
14	sions and recommendations.
15	(e) Rulemaking.—Not later than 270 days after the
16	date of the enactment of this Act, the Administrator of
17	the Federal Aviation Administration shall release for pub-
18	lic comment a notice of proposed rulemaking to modify
19	part 107 of title 14, Code of Federal Regulations, to allow
20	for operations by small unmanned aircraft, including oper-
21	ations over people, operations beyond the visual line of
22	sight of the operator, operations at night, and operations
23	of multiple unmanned aircraft systems by a single remote
24	pilot.

1	SEC. 8. EXTENSION OF PILOT PROGRAM FOR INTEGRATION
2	UNMANNED AIRCRAFT SYSTEMS INTO THE
3	NATIONAL AIRSPACE SYSTEM.
4	(a) In General.—Section 332(c)(1) of the FAA
5	Modernization and Reform Act of 2012 (Public Law 112–
6	95; 49 U.S.C. 40101 note) is amended by striking "Sep-
7	tember 30, 2019" and inserting "September 30, 2024".
8	(b) AUTHORIZATION OF APPROPRIATIONS.—There
9	are authorized to be appropriated to the Administrator of
10	the Federal Aviation Administration \$14,000,000 for each
11	of fiscal years 2018 through 2024 to carry out the pilot
12	program under section 332(c) of the FAA Modernization
13	and Reform Act of 2012 (Public Law 112–95; 49 U.S.C.
14	40101 note), to be distributed among the test ranges des-
15	ignated under that section for further research and devel-
16	opment on the safe integration of unmanned aircraft sys-
17	tems into the national airspace system.
18	SEC. 9. EXCEPTION FOR HOBBYIST-OPERATED SMALL UN-
19	MANNED AIRCRAFT.
20	(a) In General.—Notwithstanding any other provi-
21	sion of law, a person may operate an unmanned aircraft
22	without specific operating authority from the Federal
23	Aviation Administration if—
24	(1) the aircraft is flown strictly for hobby or
25	recreational use:

1	(2) the aircraft is operated in accordance with
2	the safety guidelines of a community-based organiza-
3	tion that have been published in a publically acces-
4	sible format by the Federal Aviation Administration;
5	(3) the aircraft is not flown beyond visual line
6	of sight of the person operating the aircraft or per-
7	sons colocated with and in direct communication
8	with the person operating the aircraft;
9	(4) the aircraft is operated in a manner that
10	does not interfere with and gives way to any manned
11	aircraft and does not pose undue hazard to any
12	other aircraft, obstacle, or person;
13	(5)(A) the operator—
14	(i) obtains prior authorization from
15	air traffic control before operating in Class
16	B, Class C, or Class D airspace or within
17	the lateral boundaries of the surface area
18	of Class E airspace designated for an air-
19	port; and
20	(ii) complies with all temporary and
21	permanent airspace restrictions in place
22	for the furtherance of security and law en-
23	forcement interests; or
24	(B) in the case of an operator conducting
25	operations from a permanent location within

- such airspace or a community-based organization conducting a sanctioned event at a fixed site within such airspace, establishes a mutually agreed upon operating procedure with the airport operator and the airport air traffic control tower (when an air traffic facility is located at the airport);
 - (6) the aircraft is flown from the surface to not more than 400 feet above ground level, except under special conditions and programs established by a community-based organization;
 - (7) the aircraft is registered and marked in accordance with chapter 441 of title 49, United States Code, and proof of registration is made available to the Administrator or a law enforcement agency upon request; and
 - (8) the operator has completed an online safety course administered by the Federal Aviation Administration for the operation of unmanned aircraft systems under this section, and proof of completion of the safety course is made available to the Administrator or a law enforcement agency upon request.

(b) Updates.—

(1) In general.—The Administrator, in collaboration with government and industry stake-

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1	holders, including community-based organizations,
2	shall initiate a process to periodically update the
3	operational parameters under subsection (a), as ap-
4	propriate.
5	(2) Considerations.—In updating an oper-
6	ational parameter under paragraph (1), the Admin-
7	istrator shall consider—
8	(A) appropriate operational limitations to
9	mitigate aviation safety risk and risk to the un-
10	involved public;
11	(B) operations outside the membership,
12	guidelines, and programming of a community-
13	based organization;
14	(C) physical characteristics, technical
15	standards, and classes of aircraft operating
16	under this section;
17	(D) trends in use, enforcement, or inci-
18	dents involving unmanned aircraft systems;
19	(E) ensuring, to the greatest extent prac-
20	ticable, that updates to the operational param-
21	eters correspond to, and leverage, advances in
22	technology; and
23	(F) equipage requirements that facilitate
24	operations and further integrate all unmanned
25	aircraft systems into the national airspace sys-

- 1 tem, such as through unmanned aircraft system 2 traffic management and remote identification 3 and tracking. 4 Rulemaking.—The Administrator may 5 prescribe regulations for hobbyist-operated small un-6 manned aircraft based on the process established 7 under paragraph (1). 8 (c) Rules of Construction.—Nothing in this section shall be construed—
 - (1) to expand the authority of the Administrator to require operators of small unmanned aircraft operating under an exemption under subsection
 (a) to be required to seek authorization from the Administrator before conducting an operation in the national airspace system other than as required by subsection (a); or
 - (2) to limit the authority of the Administrator to pursue an enforcement action against persons operating small unmanned aircraft in violation of this section or any other provision of law.
 - (d) List of Community-Based Organizations.—
 - (1) In General.—The Administrator shall maintain on a publicly available Internet website of the Federal Aviation Administration a list of community-based organizations under which small un-

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1	manned aircraft may be operated in accordance with
2	subsection (a).
3	(2) Inclusion of organizations.—The Ad-
4	ministrator may include a community-based organi-
5	zation on the list required by paragraph (1) if the
6	organization submits to the Federal Aviation Admin-
7	istration—
8	(A) a statement that the organization
9	meets the definition of "community-based orga-
10	nization" under subsection (e); and
11	(B) the safety guidelines of the organiza-
12	tion.
13	(3) Removal.—The Administrator may remove
14	a community-based organization from the list re-
15	quired by paragraph (1).
16	(4) Guidance.—The Administrator shall pub-
17	lish guidance on the process for including commu-
18	nity-based organizations on, and removing such or-
19	ganizations, from the list required by paragraph (1).
20	(e) Definitions.—In this section:
21	(1) COMMUNITY-BASED ORGANIZATION.—The
22	term "community-based organization" means an or-
23	ganization that—

1	(A) represents the aeromodeling and hobby
2	and recreational unmanned aircraft community
3	within the United States;
4	(B) provides its members a comprehensive
5	set of safety guidelines that underscore safe op-
6	erations of unmanned aircraft within the na-
7	tional airspace system and the protection and
8	safety of the general public on the ground;
9	(C) develops and maintains mutually sup-
10	portive programming with educational institu-
11	tions, government entities, and other aviation
12	associations; and
13	(D) acts as a liaison with government
14	agencies as an advocate for its members.
15	(2) SMALL UNMANNED AIRCRAFT.—The term
16	"small unmanned aircraft" means an unmanned air-
17	craft that—
18	(A) is capable of sustained flight in the at-
19	mosphere; and
20	(B) weighs less than 55 pounds, including
21	the weight of anything attached to or carried by
22	the aircraft, unless otherwise approved through
23	a design, construction, inspection, flight test,
24	and operational safety program administered by
25	a community-based organization.

1	(f) Conforming Repeal.—Section 336 of the FAA
2	Modernization and Reform Act of 2012 (Public Law 112–
3	95; 49 U.S.C. 40101 note) and the item relating to that
4	section in the table of contents for that Act are repealed.
5	SEC. 10. ENSURING CONTINUED DEVELOPMENT OF UN-
6	MANNED AIRCRAFT SYSTEM INDUSTRY.
7	Not later than 30 days after the date of the enact-
8	ment of this Act, the Director of the Office of Manage-
9	ment and Budget, consistent with section 4(c) of Execu-
10	tive Order 13771 (82 Fed. Reg. 9339; relating to reducing
11	regulation and controlling regulatory costs), shall exempt
12	from the definitions of "regulation" and "rule" for the
13	purposes of that Executive order any final action taken
14	by the Secretary of Transportation or the Administrator
15	of the Federal Aviation Administration on or after Janu-
16	ary 30, 2017, primarily related to unmanned aircraft sys-
17	tems.
18	SEC. 11. GOVERNMENT ACCOUNTABILITY OFFICE REPORT
19	ON CYBERSECURITY AND OPERATIONAL
20	CONCERNS.
21	Not later than one year after the date of the enact-

23 States shall submit to Congress a report—

22 ment of this Act, the Comptroller General of the United

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1	(1) describing developments and protections re-
2	lating to cybersecurity and operational control con-
3	cerns with respect to unmanned aircraft systems;

- (2) making recommendations for developments and protections described in paragraph (1) that could better address such concerns; and
- (3) making recommendations for clearly defining Federal jurisdiction and oversight of unmanned aircraft system security matters.

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